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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/696,013	10/26/2000	Hiroshi Yoshida	P107400-00016	2916
7590 01/30/2004  ARENT FOX KINTNER PLOTKIN & KAHN, PLLC 1050 Connecticut Avenue, N.W., Suite 600			EXAMINER	
			KOSLOW, CAROL M	
	C 20036-5339	000	ART UNIT PAPER NUMBER	
			1755	
		DATE MAILED: 01/30/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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~ <b>↓</b> · *		Application No.	Applicant(s)			
Office Antique Commence		09/696,013	YOSHIDA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		C. Melissa Koslow	1755			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status						
1)[🖂	Responsive to communication(s) filed on 211	November 2003.				
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ This	action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠	☑ Claim(s) <u>6-10 and 13-17</u> is/are pending in the application.					
	4a) Of the above claim(s) 13-17 is/are withdrawn from consideration.					
5)□	Claim(s) is/are allowed.					
6)⊠	☑ Claim(s) <u>6-10</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)[	Claim(s) are subject to restriction and/	or election requirement.				
Application Papers						
9)[	The specification is objected to by the Examin	er.				
10)	The drawing(s) filed on is/are: a) $\square$ acc	cepted or b) $\square$ objected to by the E	Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. §§ 119 and 120						
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.  37 CFR 1.78.  a) ☐ The translation of the foreign language provisional application has been received.  14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.						
Attachment(s)						
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Informal Pa	(PTO-413) Paper No(s) atent Application (PTO-152)			

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The finality of that office action of 19 May 2003 is withdrawn due to the declaration submitted 21 November 2003.

The art rejections are all withdrawn due to the declaration of 21 November 2003.

Claims 13-17 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: The claimed method of adjusting the ferromagnetic characteristics of a ZnO-type compound in the form of a single crystal is unrelated to the originally claimed method of method of adjusting the ferromagnetic characteristics of a ZnO-type compound since they are not usable together and they have different effects.

In applicants' response of 14 August 2003, they argued that Miyazaki et al teaches a polycrystalline compound, not a single crystalline compound. This argument indicates applicants consider the term "single crystalline" to mean "a compound in the form of a single crystal". The claims and specification are being interpreted using applicants' definition.

Since applicant has received an action on the merits for the originally presented invention which where to the process where the crystal form of the compound was not given, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 13-17 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim 7 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

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There is no teaching in the specification to enable one of ordinary skill in the art determine the necessary amounts and composition of the dopant from groups (1)-(3) in order to produce compound having a predetermined ferromagnetic transition temperature. There is no taught relationship between the amounts and composition of the dopant to the ferromagnetic transition temperature. While the specification generically teaches the dopants in an amount in the range of 1-99 at% will adjust the ferromagnetic transition temperature, there is no indication how one can determine the necessary amounts and composition of the dopant from groups (1)-(3) from those claimed when given a specific ferromagnetic transition temperature without undue experimentation.

Claims 6-10 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The declaration shows that only ZnO-type compounds in the form of a single crystal doped with the claimed elements will have ferromagnetic characteristics. Claims 6-10 do not require the claimed compound to be a single crystal. Given the declaration, one of ordinary skill in the would know the claimed method is not functional since the material resulting from the process is not and cannot be made ferromagnetic through doping.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melissa Koslow whose telephone number is (571) 272-1371. The examiner can normally be reached on Monday-Friday from 8:00 AM to 3:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Bell, can be reached at (571) 272-1362.

The fax number for all official communications is (703) 872-9306.

cmk January 27, 2004 C. Melissa Koslow Primary Examiner Tech. Center 1700